

Serial No. 09/980,466
Response Dated November 10, 2010
Reply to Office Action of May 10, 2010

Claims

What is claimed is:

1-16 (Cancelled)

17. (Previously Presented) An ink-jet transfer system, comprising:
 - a) a carrier material;
 - b) an adhesive layer applied onto said carrier material, said adhesive layer including dispersed spherical polyester particles of a granular size of less than 30 μm ;
 - c) a white background layer applied onto the adhesive layer; said white background layer including an elastic plastic and white inorganic pigment, wherein said elastic plastic and white inorganic pigment do not melt at a temperature up to about 220°C; and
 - d) an ink-receiving layer applied onto said white background.
18. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the ink-receiving layer comprises a binder, whereby molecules of the binder are capable of forming chemical bonds to ink dyestuff molecules.
19. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the ink-receiving layer comprises a pigment, whereby molecules of the pigment are capable of forming chemical bonds to ink dyestuff molecules.
20. (Previously Presented) The ink-jet transfer system of Claim 18, wherein the dyestuff molecules are azo-dyestuff molecules.
21. (Previously Presented) The ink-jet transfer system of Claim 19, wherein the dyestuff molecules are azo-dyestuff molecules.
22. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the ink-receiving layer comprises a polyimide binder.

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23. (Previously Presented) The ink-jet transfer system of Claim 19, wherein the ink-receiving layer comprises a polyimide pigment.

24. (Previously Presented) The ink-jet transfer system of Claim 23, wherein the ink-receiving layer comprises a polyamide pigment having a surface area of at least about 15 m²/g and a mean granular size of about 2 to 25 µm and a polyimide binder.

25. (Previously Presented) The ink-jet transfer system of Claim 24, wherein the ratio between the pigment and the binder is between about 5:1 and about 1:1

26. (Previously Presented) The ink-jet transfer system of Claim 25, wherein the ratio between the pigment and the binder is about 2.4:1.

27. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the elastic plastics of the white background layer are selected from the group consisting of polyurethanes, polyacrylates and polyalkylenes.

28. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the white inorganic pigments in the white background layer are selected from the group consisting of BaSO₄, ZnS, TiO₂, ZnO, and SbO.

29. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the adhesive layer is a hot-melt layer.

30. (Previously Presented) The ink-jet transfer system of Claim 29, wherein the hot-melt layer comprises a mixture of an ethylene acrylic acid copolymer and polyester particles of a granular size of less than or equal to 20 µm.

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31. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the carrier layer comprises a heat-resistant separating paper.

32. (Previously Presented) The ink-jet transfer system of Claim 31, wherein the heat-resistant separating paper is silicon paper.

33. (Previously Presented) The ink-jet transfer system of Claim 17, wherein the ink-receiving layer further comprises a dispersing additive for the pigment.

34-36 (Cancelled)

37. (previously presented) An ink-jet transfer system, characterized in that it comprises:

- a) a carrier material;
- b) an adhesive layer being applied onto said carrier material;
- c) a white background layer being applied on the adhesive layer consisting of elastic plastics which are non-fusible at temperatures up to 220°C and which are filled with white inorganic pigments; and
- d) at least one ink-receiving layer.

38. (previously presented) The ink-jet transfer system according to claim 37 wherein the adhesive layer is a hot melt adhesive layer.

39. (previously presented) The ink-jet transfer system according to claim 38, wherein
- a) said carrier material comprises a silicon paper;
 - b) an adhesive in said hot melt adhesive layer is selected from the group of ethylene acrylic acid copolymer, polyurethane dispersion, polyamide, polyethylene and mixtures thereof;
 - c) said elastic plastics of said white background layer are selected from the group

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consisting of polyurethanes, polyacrylates, polyakylene and latex and said white inorganic pigments are selected from the group comprising BaSO₄, ZnS, TiO₂, ZnO, SbO and mixtures thereof; and

d) said at least one ink-receiving layer comprises a binder and a porous polyamide pigment.

40. (previously presented) The ink-jet transfer system according to claim 39, wherein

b) said adhesive in said adhesive hot melt layer is an ethylene acrylic acid copolymer;

and

c) said elastic plastic of said white background layer is selected from the group comprising polyurethanes and said white inorganic pigment is TiO₂.

41-111 (cancelled)